

TABLE 21

## State agency expenditures for R&amp;D, by state, department or agency, and function of R&amp;D: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other <sup>a</sup>
United States <sup>b</sup>	2,643,991,142	127,263,681	327,115,797	540,876,111	1,100,991,524	290,871,093	256,872,936
Alabama	88,219,991	326,726	667,842	70,126,266	1,751,080	3,692,380	11,655,697
Commerce, Department of	63,419,633	0	0	62,000,000	1,419,633	0	0
Conservation and Natural Resources, Department of; Wildlife and Freshwater Fisheries Division	1,219,039	0	0	1,219,039	0	0	0
Economic and Community Affairs, Department of	1,693,012	326,726	85,710	241,463	331,447	28,593	679,073
Education, Department of	6,214,729	0	0	0	0	0	6,214,729
Forensic Sciences, Department of	208,094	0	0	0	0	0	208,094
Geological Survey	3,563,032	0	582,132	2,980,900	0	0	0
Marine Environmental Science Consortium, Dauphin Island Sea Lab	3,684,864	0	0	3,684,864	0	0	0
Supercomputer Authority	4,553,801	0	0	0	0	0	4,553,801
Transportation, Department of	3,663,787	0	0	0	0	3,663,787	0
Alaska	17,157,228	0	731,152	10,015,251	534,187	4,808,710	1,067,928
Energy Authority	231,152	0	231,152	0	0	0	0
Environmental Conservation, Department of	534,187	0	0	0	534,187	0	0
Housing Finance Corporation	500,000	0	500,000	0	0	0	0
Natural Resources, Department of; Division of Geological and Geophysical Surveys	9,216,400	0	0	9,216,400	0	0	0
Railroad Corporation	3,636,619	0	0	0	0	3,636,619	0
Transportation and Public Facilities, Department of	3,038,870	0	0	798,851	0	1,172,091	1,067,928
Arizona	7,946,421	1,311,266	0	1,140,215	3,518,749	1,414,933	561,258
Agriculture, Department of	1,412,034	1,311,266	0	100,768	0	0	0
Game and Fish Department	1,039,447	0	0	1,039,447	0	0	0
Health Services, Department of	3,518,749	0	0	0	3,518,749	0	0
Juvenile Corrections, Department of	561,258	0	0	0	0	0	561,258
Transportation, Department of	1,414,933	0	0	0	0	1,414,933	0
Arkansas	9,759,708	5,336,054	0	1,558,599	275,000	1,079,240	1,510,815
Beef Council	50,605	50,605	0	0	0	0	0
Corn and Grain Sorghum Promotion Board	984,233	809,733	0	174,500	0	0	0
Economic Development Commission	1,675,000	0	0	0	275,000	0	1,400,000
Game and Fish Commission	1,159,178	0	0	1,159,178	0	0	0
Midwest Dairy Association, Arkansas Division	10,386	10,386	0	0	0	0	0
Natural Heritage Commission	160,921	0	0	160,921	0	0	0
Rice Research and Promotion Board	2,396,257	2,396,257	0	0	0	0	0
Soybean Promotion Board	2,207,956	2,033,141	0	64,000	0	0	110,815
Transportation, Department of	1,079,240	0	0	0	0	1,079,240	0
Wheat Promotion Board	35,932	35,932	0	0	0	0	0

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(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other <sup>a</sup>
California	490,081,806	7,753,869	191,774,566	64,903,411	173,274,157	39,260,000	13,115,803
Air Resources Board	17,251,207	0	0	17,251,207	0	0	0
Children and Families Commission (First 5 California)	7,739,521	0	0	0	0	0	7,739,521
Conservation, Department of	1,259,204	0	0	843,198	0	0	416,006
Corrections and Rehabilitation, Department of	2,301,034	0	0	0	0	0	2,301,034
Covered California	3,799,165	0	0	0	3,799,165	0	0
Dairy Council	50,373	0	0	0	50,373	0	0
Delta Stewardship Council	5,201,966	0	0	5,201,966	0	0	0
Earthquake Authority	539,832	0	0	0	0	0	539,832
Energy Commission	130,400,000	0	130,400,000	0	0	0	0
Environmental Health Hazard Assessment, Office of	19,844,985	0	0	0	19,844,985	0	0
Food and Agriculture, Department of	5,012,081	5,012,081	0	0	0	0	0
Forestry and Fire Protection, Department of	21,200,000	0	0	16,200,000	5,000,000	0	0
Horse Racing Board	710,513	710,513	0	0	0	0	0
Housing and Community Development, Department of	500,000	0	0	0	0	0	500,000
Institute for Regenerative Medicine	122,808,196	0	0	0	122,808,196	0	0
Mental Health Services Oversight and Accountability Commission	2,500,000	0	0	0	2,500,000	0	0
Motor Vehicles, Department of	1,776,392	0	0	0	1,776,392	0	0
Parks And Recreation, Department of	1,515,260	0	0	1,515,260	0	0	0
Pesticide Regulation, Department of	14,058,135	1,981,560	0	2,147,005	9,929,570	0	0
Public Health, Department of	6,155,476	0	0	316,000	5,839,476	0	0
Public Utilities Commission, Executive Division	61,374,566	0	61,374,566	0	0	0	0
Rehabilitation, Department of	1,619,410	0	0	0	0	0	1,619,410
State Coastal Conservancy	942,260	0	0	942,260	0	0	0
State Water Resources Control Board	8,564,983	49,715	0	6,789,268	1,726,000	0	0
Toxic Substances Control, Department of	645,987	0	0	645,987	0	0	0
Transportation, Department of	39,260,000	0	0	0	0	39,260,000	0
Water Resources, Department of	13,051,260	0	0	13,051,260	0	0	0
Colorado	38,058,349	1,028,351	2,602,115	7,762,275	8,813,647	3,395,841	14,456,120
Agriculture, Department of	581,906	228,206	0	0	353,700	0	0
Economic Development and International Trade, Office of	20,576,916	571,103	2,435,049	0	7,671,891	0	9,898,873
Higher Education Competitive, Research Authority	1,443,141	0	167,066	129,275	0	0	1,146,800
Higher Education, Department of	2,425,000	0	0	0	0	0	2,425,000

TABLE 21

## State agency expenditures for R&amp;D, by state, department or agency, and function of R&amp;D: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other <sup>a</sup>
Natural Resources, Department of	5,062,623	0	0	5,057,128	55	5,000	440
Public Health and Environment, Department of	3,363,873	0	0	2,575,872	788,001	0	0
Public Safety, Department of; Division of Criminal Justice	985,007	0	0	0	0	0	985,007
Transportation, Department of	3,390,841	0	0	0	0	3,390,841	0
Wine Industry Development Board	229,042	229,042	0	0	0	0	0
Connecticut	60,578,799	4,321,687	2,919,711	11,877,203	26,085,781	2,971,742	12,402,675
Agricultural Experiment Station	13,756,272	4,321,687	0	4,556,381	4,878,204	0	0
Energy and Environmental Protection, Department of	7,320,822	0	0	7,320,822	0	0	0
Innovation Inc.	28,919,435	0	2,919,711	0	13,988,354	0	12,011,370
Mental Health and Addiction Services, Department of	7,217,443	0	0	0	7,217,443	0	0
Public Health, Department of	1,780	0	0	0	1,780	0	0
Social Services, Department of	391,305	0	0	0	0	0	391,305
Transportation, Department of	2,971,742	0	0	0	0	2,971,742	0
Delaware	3,446,375	0	10,495	2,229,910	0	1,205,970	0
Geological Survey	1,618,967	0	0	1,583,763	0	35,204	0
Natural Resources and Environmental Control, Department of	646,147	0	0	646,147	0	0	0
Sustainable Energy Utility	10,495	0	10,495	0	0	0	0
Transportation, Department of	1,170,766	0	0	0	0	1,170,766	0
District of Columbia	10,560,754	0	0	1,976,600	8,244,141	245,919	94,094
Energy and Environment, Department of	476,600	0	0	476,600	0	0	0
Health, Department of	8,244,141	0	0	0	8,244,141	0	0
Transportation, Department of	340,013	0	0	0	0	245,919	94,094
Water and Sewer Authority	1,500,000	0	0	1,500,000	0	0	0
Florida	180,145,644	14,851,847	1,012,306	57,744,843	92,302,255	14,134,393	100,000
Agriculture and Consumer Services, Department of	18,305,424	14,351,847	1,012,306	2,247,776	590,928	102,567	0
Citrus, Department of	850,364	500,000	0	0	350,364	0	0
Environmental Protection, Department of	68,838	0	0	68,838	0	0	0
Fish and Wildlife Conservation Commission	55,428,229	0	0	55,428,229	0	0	0
Gaming Control Commission	100,000	0	0	0	0	0	100,000
Health, Department of	91,360,963	0	0	0	91,360,963	0	0
Space Florida	1,305,000	0	0	0	0	1,305,000	0
Transportation, Department of	12,726,826	0	0	0	0	12,726,826	0
Georgia	24,988,379	0	7,759,750	12,722,663	0	4,505,966	0
Natural Resources, Department of	1,452,630	0	0	1,452,630	0	0	0
Southern States Energy Board	19,326,825	0	7,759,750	11,270,033	0	297,042	0
Transportation, Department of	4,208,924	0	0	0	0	4,208,924	0
Hawaii	6,337,851	932,423	282,042	632,000	1,033,000	2,793,386	665,000
Agriculture, Department of	1,098,423	598,423	0	0	500,000	0	0

TABLE 21

## State agency expenditures for R&amp;D, by state, department or agency, and function of R&amp;D: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other <sup>a</sup>
Business, Economic Development, and Tourism, Department of	2,022,042	334,000	282,042	208,000	533,000	0	665,000
Land and Natural Resources, Department of	424,000	0	0	424,000	0	0	0
Natural Energy Laboratory of Hawaii Authority	0	0	0	0	0	0	0
Transportation, Department of	2,793,386	0	0	0	0	2,793,386	0
Idaho	20,444,262	8,109,741	0	9,482,216	0	2,852,305	0
Agriculture, Department of	1,623,399	1,623,399	0	0	0	0	0
Barley Commission	367,497	367,497	0	0	0	0	0
Bean Commission	33,833	33,833	0	0	0	0	0
Beef Council	211,642	211,642	0	0	0	0	0
Commerce, Department of	1,289,693	464,736	0	440,418	0	384,539	0
Dairy West	2,999,460	2,999,460	0	0	0	0	0
Fish and Game, Department of	9,041,798	0	0	9,041,798	0	0	0
Oilseed Commission	72,645	72,645	0	0	0	0	0
Pea and Lentil Commission	177,697	177,697	0	0	0	0	0
Potato Commission	878,871	878,871	0	0	0	0	0
Transportation Department	2,467,766	0	0	0	0	2,467,766	0
Wheat Commission	1,279,961	1,279,961	0	0	0	0	0
Illinois	16,463,839	1,977,021	0	1,956,250	400,000	9,782,913	2,347,655
Children and Family Services, Department of	2,347,655	0	0	0	0	0	2,347,655
Midwest Dairy Association, Illinois Division	20,772	20,772	0	0	0	0	0
Nutrient Research and Education Council	3,912,499	1,956,249	0	1,956,250	0	0	0
Public Health, Department of	400,000	0	0	0	400,000	0	0
Transportation, Department of	9,782,913	0	0	0	0	9,782,913	0
Indiana	12,104,856	500,000	0	352,281	0	9,312,575	1,940,000
Economic Development Corporation	3,399,111	0	0	0	0	1,459,111	1,940,000
Natural Resources, Department of	852,281	500,000	0	352,281	0	0	0
Transportation, Department of	7,853,464	0	0	0	0	7,853,464	0
Iowa	10,636,720	179,657	0	3,688,099	0	6,142,926	626,038
Beef Industry Council	60,218	60,218	0	0	0	0	0
Human Rights, Criminal and Juvenile Justice Planning, Division of, Department of	626,038	0	0	0	0	0	626,038
Midwest Dairy Association, Iowa Division	119,439	119,439	0	0	0	0	0
Natural Resources, Department of	3,688,099	0	0	3,688,099	0	0	0
Transportation, Department of	6,142,926	0	0	0	0	6,142,926	0
Kansas	17,633,236	4,457,312	132,471	8,280,611	0	3,765,115	997,727
Corn Commission	311,744	179,273	132,471	0	0	0	0
Grain Sorghum Commission	700,000	700,000	0	0	0	0	0
Midwest Dairy Association, Kansas Division	15,579	15,579	0	0	0	0	0
Soybean Commission	1,248,862	1,248,862	0	0	0	0	0

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## State agency expenditures for R&amp;D, by state, department or agency, and function of R&amp;D: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other <sup>a</sup>
State Board of Regents	997,727	0	0	0	0	0	997,727
Sunflower Commission	20,000	20,000	0	0	0	0	0
Transportation, Department of	3,765,115	0	0	0	0	3,765,115	0
Water Office	1,207,240	48,598	0	1,158,642	0	0	0
Wheat Commission	2,245,000	2,245,000	0	0	0	0	0
Wildlife and Parks, Department of	7,121,969	0	0	7,121,969	0	0	0
Kentucky	34,881,537	290,727	140,000	7,261,361	16,829,567	8,781,665	1,578,217
Economic Development, Cabinet for	3,447,809	80,000	140,000	230,000	1,419,592	0	1,578,217
Fish and Wildlife Resources, Department of	6,989,041	0	0	6,989,041	0	0	0
Horse Racing Commission	70,000	0	0	0	70,000	0	0
Nature Preserves, Office of Kentucky	42,320	0	0	42,320	0	0	0
Postsecondary Education, Council on	11,572,700	0	0	0	11,572,700	0	0
Public Health, Department for	3,767,275	0	0	0	3,767,275	0	0
Soybean Promotion Board	210,727	210,727	0	0	0	0	0
Transportation Cabinet	8,781,665	0	0	0	0	8,781,665	0
Louisiana	31,843,839	289,750	927,353	10,092,683	1,196,008	10,065,406	9,272,639
Board of Regents	12,613,939	289,750	927,353	862,783	1,196,008	65,406	9,272,639
Coastal Protection and Restoration Authority	3,681,012	0	0	3,681,012	0	0	0
Transportation and Development, Department of	10,000,000	0	0	0	0	10,000,000	0
Wildlife and Fisheries, Department of	5,548,888	0	0	5,548,888	0	0	0
Maine	24,812,470	1,542,730	0	7,605,622	9,873,473	1,558,635	4,232,010
Agriculture, Conservation and Forestry, Department of	1,889,382	0	0	1,889,382	0	0	0
Aquaculture Innovation Center	555,101	555,101	0	0	0	0	0
Inland Fisheries and Wildlife, Department of	1,080,841	0	0	1,080,841	0	0	0
Marine Resources, Department of	2,712,300	0	0	2,712,300	0	0	0
MDI Biological Laboratory, Center for Biomedical Innovation	9,143,683	0	0	0	9,085,048	58,635	0
Technology Institute	7,931,163	987,629	0	1,923,099	788,425	0	4,232,010
Transportation, Department of	1,500,000	0	0	0	0	1,500,000	0
Maryland	31,280,581	0	2,000,000	410,466	26,227,112	2,643,003	0
Energy Administration	2,000,000	0	2,000,000	0	0	0	0
Health, Department of	15,000,000	0	0	0	15,000,000	0	0
Natural Resources, Department of	410,466	0	0	410,466	0	0	0
Technology Development Corporation	11,227,112	0	0	0	11,227,112	0	0
Transportation, Department of	2,643,003	0	0	0	0	2,643,003	0
Massachusetts	26,616,423	0	8,548,706	3,522,905	9,189,115	4,050,000	1,305,697
Clean Energy Technology Center	6,848,706	0	6,848,706	0	0	0	0

TABLE 21

## State agency expenditures for R&amp;D, by state, department or agency, and function of R&amp;D: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other <sup>a</sup>
Environmental Protection, Department of	1,771,575	0	0	1,771,575	0	0	0
Fish and Game, Department of	1,064,180	0	0	1,064,180	0	0	0
Gaming Commission	2,831,240	0	0	0	2,791,240	0	40,000
MassVentures	3,400,000	0	1,700,000	0	1,700,000	0	0
Mental Health, Department of	2,306,184	0	0	0	2,306,184	0	0
Public Health, Department of	1,888,570	0	0	0	1,888,570	0	0
Technology Park Corporation	1,805,968	0	0	337,150	203,121	0	1,265,697
Transportation, Department of	4,050,000	0	0	0	0	4,050,000	0
Water Resources Authority	650,000	0	0	350,000	300,000	0	0
Michigan	30,525,914	2,756,984	0	880,828	20,662,258	6,225,844	0
Agriculture and Rural Development, Department of	3,198,958	2,756,984	0	441,974	0	0	0
Environmental, Great Lakes, and Energy, Department of	438,854	0	0	438,854	0	0	0
Health and Human Services	662,258	0	0	0	662,258	0	0
Licensing and Regulatory Affairs	20,000,000	0	0	0	20,000,000	0	0
Transportation, Department of	6,225,844	0	0	0	0	6,225,844	0
Minnesota	25,093,959	4,545,874	0	4,929,165	0	15,618,920	0
Agriculture, Department of	5,160,630	4,317,382	0	843,248	0	0	0
Forest Resources Council	75,000	0	0	75,000	0	0	0
Midwest Dairy Association, Minnesota Division	228,492	228,492	0	0	0	0	0
Natural Resources, Department of	2,220,492	0	0	2,220,492	0	0	0
Pollution Control Agency	233,164	0	0	233,164	0	0	0
Transportation, Department of	17,176,181	0	0	1,557,261	0	15,618,920	0
Mississippi	9,788,541	114,017	0	6,374,191	0	3,300,333	0
Agriculture and Commerce, Department of	114,017	114,017	0	0	0	0	0
Environmental Quality, Department of	833,599	0	0	833,599	0	0	0
Gulf States Marine Fisheries Commission	927,742	0	0	927,742	0	0	0
Marine Resources, Department of	2,131,369	0	0	2,131,369	0	0	0
Transportation, Department of	3,300,333	0	0	0	0	3,300,333	0
Wildlife, Fisheries, and Parks, Department of	2,481,481	0	0	2,481,481	0	0	0
Missouri	12,430,684	2,327,790	0	7,213,438	242,500	2,646,956	0
Agriculture, Department of	1,197,350	1,197,350	0	0	0	0	0
Conservation, Department of	7,039,079	0	0	7,039,079	0	0	0
Mental Health, Department of	242,500	0	0	0	242,500	0	0
Natural Resources, Department of	174,359	0	0	174,359	0	0	0
Technology Corporation	500,000	500,000	0	0	0	0	0
Transportation, Department of	2,646,956	0	0	0	0	2,646,956	0
Wine and Grape Board	630,440	630,440	0	0	0	0	0
Montana	9,752,216	3,359,243	0	4,371,611	0	1,971,362	50,000
Agriculture, Department of	3,359,243	3,359,243	0	0	0	0	0

TABLE 21

## State agency expenditures for R&amp;D, by state, department or agency, and function of R&amp;D: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other <sup>a</sup>
Environmental Quality, Department of	55,000	0	0	55,000	0	0	0
Fish, Wildlife and Parks, Department of	3,824,321	0	0	3,824,321	0	0	0
Natural Resources and Conservation, Department of	42,740	0	0	42,740	0	0	0
Transportation, Department of	2,470,912	0	0	449,550	0	1,971,362	50,000
Nebraska	32,687,157	3,326,551	157,872	4,079,403	19,918,950	1,270,607	3,933,774
Agriculture, Department of	880,683	880,683	0	0	0	0	0
Corn Board	798,965	605,344	112,872	0	0	80,749	0
Dry Bean Commission	305,376	305,376	0	0	0	0	0
Economic Development, Department of	6,618,124	1,487,600	45,000	0	1,085,250	66,500	3,933,774
Game and Parks Commission	3,935,042	0	0	3,935,042	0	0	0
Grain Sorghum Board	5,000	5,000	0	0	0	0	0
Health and Human Services, Department of	18,833,700	0	0	0	18,833,700	0	0
Midwest Dairy Association, Nebraska Division	31,158	31,158	0	0	0	0	0
Natural Resources, Department of	50,000	0	0	50,000	0	0	0
Pea And Lentil Commission	1,390	1,390	0	0	0	0	0
Transportation, Department of	1,217,719	0	0	94,361	0	1,123,358	0
Wheat Board	10,000	10,000	0	0	0	0	0
Nevada	3,643,395	208,642	0	474,700	0	1,632,800	1,327,253
Agriculture, Department of	208,642	208,642	0	0	0	0	0
Economic Development, Governor's office of	1,327,253	0	0	0	0	0	1,327,253
Transportation, Department of	2,107,500	0	0	474,700	0	1,632,800	0
New Hampshire	9,222,505	26,047	0	1,406,171	0	734,656	7,055,631
Agriculture, Markets and Food, Department of	43,897	26,047	0	17,850	0	0	0
Business and Economic Affairs, Department of	7,000,000	0	0	0	0	0	7,000,000
Environmental Services, Department of	1,259,624	0	0	1,259,624	0	0	0
Transportation, Department of	918,984	0	0	128,697	0	734,656	55,631
New Jersey	65,020,915	0	0	5,608,633	46,820,754	7,239,506	5,352,022
Agriculture, Department of	180,151	0	0	0	180,151	0	0
Children and Families, Department of	368,019	0	0	0	0	0	368,019
Community Affairs, Department of	22,000	0	0	0	0	0	22,000
Corrections, Department of	416,034	0	0	0	0	0	416,034
Environmental Protection, Department of	6,493,270	0	0	5,196,552	1,296,718	0	0
Health, Department of	45,343,885	0	0	0	45,343,885	0	0
Pinelands Commission	412,081	0	0	412,081	0	0	0
Secretary of Higher Education, Office of	4,500,000	0	0	0	0	0	4,500,000
State Parole Board, New Jersey	45,969	0	0	0	0	0	45,969

TABLE 21

## State agency expenditures for R&amp;D, by state, department or agency, and function of R&amp;D: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other <sup>a</sup>
Transit, New Jersey	251,362	0	0	0	0	251,362	0
Transportation, Department of	6,988,144	0	0	0	0	6,988,144	0
New Mexico	3,456,227	0	0	1,950,400	0	1,400,300	105,527
Cultural Affairs, Department of	105,527	0	0	0	0	0	105,527
Game and Fish, Department of	1,765,554	0	0	1,765,554	0	0	0
Transportation, Department of	1,400,300	0	0	0	0	1,400,300	0
Western State Air Resources Council	184,846	0	0	184,846	0	0	0
New York	506,283,025	8,293,408	65,172,565	21,860,827	308,203,902	10,073,889	92,678,434
Agriculture and Markets, Department of	7,728,860	7,419,400	0	309,460	0	0	0
Economic Development, Department of	103,874,022	0	3,150,000	0	8,095,588	0	92,628,434
Energy Research and Development Authority	56,620,719	0	52,923,298	330,349	0	3,367,072	0
Environmental Conservation, Department of	8,217,418	0	0	8,217,418	0	0	0
Health, Department of	58,241,006	301,329	0	1,807,973	56,131,704	0	0
Mental Health, Office of	170,676,444	0	0	0	170,676,444	0	0
People with Developmental Disabilities, Office of	1,682,143	0	0	0	1,632,143	0	50,000
Power Authority	9,714,648	167,387	9,099,267	213,369	105,250	129,375	0
Roswell Park Comprehensive Cancer Center	71,562,773	0	0	0	71,562,773	0	0
State Museum	10,982,258	0	0	10,982,258	0	0	0
Thoroughbred Breeding and Development Fund Corp.	405,292	405,292	0	0	0	0	0
Transportation, Department of	6,577,442	0	0	0	0	6,577,442	0
North Carolina	38,818,576	14,078,340	1,680,920	6,263,664	5,202,825	9,103,250	2,489,577
Agriculture and Consumer Services, Department of	15,422,911	13,922,911	1,500,000	0	0	0	0
Biotechnology Center	2,841,679	0	0	0	2,841,679	0	0
Environmental Quality, Department of	3,275,157	0	0	2,778,079	0	0	497,078
Natural and Cultural Resources, Department of	2,425,310	0	0	2,425,310	0	0	0
Science Technology & Innovation, Office of	4,660,090	12,000	180,920	105,275	2,361,146	8,250	1,992,499
Transportation, Department of	10,050,000	0	0	955,000	0	9,095,000	0
Wine and Grape Growers Council	143,429	143,429	0	0	0	0	0
North Dakota	17,874,336	3,145,930	9,398,767	624,754	3,313,396	1,298,374	93,115
Agriculture, Department of	3,313,396	0	0	0	3,313,396	0	0
Dry Pea and Lentil Commission	282,308	282,308	0	0	0	0	0
Game and Fish, Department of	595,698	0	0	595,698	0	0	0
Historical Society of North Dakota	93,115	0	0	0	0	0	93,115
Industrial Commission	9,398,767	0	9,398,767	0	0	0	0
Midwest Dairy Association, North Dakota Division	5,193	5,193	0	0	0	0	0
Soybean Council	1,622,297	1,593,241	0	29,056	0	0	0

TABLE 21

## State agency expenditures for R&amp;D, by state, department or agency, and function of R&amp;D: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other <sup>a</sup>
Transportation, Department of	1,298,374	0	0	0	0	1,298,374	0
Wheat Commission	1,265,188	1,265,188	0	0	0	0	0
Ohio	70,471,571	0	9,364,131	49,888,407	0	6,349,868	4,869,165
Development, Department of	57,980,338	0	9,315,678	43,975,495	0	0	4,689,165
Education, Department of	180,000	0	0	0	0	0	180,000
Environmental Protection Agency	379,412	0	0	379,412	0	0	0
Natural Resources, Department of	3,723,242	0	48,453	3,674,789	0	0	0
Transportation, Department of	6,349,868	0	0	0	0	6,349,868	0
Water Development Authority	1,858,711	0	0	1,858,711	0	0	0
Oklahoma	27,646,238	1,514,338	883,335	3,000,003	16,139,607	4,292,220	1,816,735
Advancement of Science and Technology, Center for the	8,629,841	1,065,549	883,335	418,083	4,182,092	723,848	1,356,934
Agriculture, Food, and Forestry, Department of	443,596	443,596	0	0	0	0	0
Environmental Quality, Department of	345,916	0	0	345,916	0	0	0
Grand River Dam Authority	525,000	0	0	525,000	0	0	0
Health, Department of	1,053,610	0	0	0	1,053,610	0	0
Human Services, Department of	459,801	0	0	0	0	0	459,801
Midwest Dairy Association, Oklahoma Division	5,193	5,193	0	0	0	0	0
Tobacco Settlement Endowment Trust	10,903,905	0	0	0	10,903,905	0	0
Transportation, Department of	3,568,372	0	0	0	0	3,568,372	0
Wildlife Conservation, Department of	1,711,004	0	0	1,711,004	0	0	0
Oregon	33,801,166	583,164	1,659,775	18,199,863	3,779,289	7,385,549	2,193,526
Agriculture, Department of	248,348	248,348	0	0	0	0	0
Business Oregon	11,252,148	334,816	1,659,775	759,816	3,545,794	3,225,412	1,726,535
Environmental Quality, Department of	145,000	0	0	145,000	0	0	0
Fish and Wildlife, Department of	14,109,145	0	0	14,109,145	0	0	0
Forestry, Department of	700,000	0	0	700,000	0	0	0
Geology and Mineral Industries, Department of	942,340	0	0	942,340	0	0	0
Human Services, Department of	778,318	0	0	77,832	233,495	0	466,991
Transportation, Department of	4,292,580	0	0	132,443	0	4,160,137	0
Water Resources Department	1,067,424	0	0	1,067,424	0	0	0
Watershed Enhancement Board	265,863	0	0	265,863	0	0	0
Pennsylvania	88,557,830	3,446,582	457,337	13,890,852	61,719,253	4,100,235	4,943,571
Agriculture, Department of	3,206,582	3,206,582	0	0	0	0	0
Community and Economic Development, Department of	22,100,000	240,000	307,429	210,000	15,189,000	1,210,000	4,943,571
Conservation and Natural Resources, Department of	505,181	0	0	505,181	0	0	0
Environmental Protection, Department of	196,401	0	149,908	0	46,493	0	0

TABLE 21

## State agency expenditures for R&amp;D, by state, department or agency, and function of R&amp;D: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other <sup>a</sup>
Fish and Boat Commission	348,312	0	0	348,312	0	0	0
Game Commission	12,697,359	0	0	12,697,359	0	0	0
Health, Department of	46,483,760	0	0	0	46,483,760	0	0
Susquehanna River Basin Commission	130,000	0	0	130,000	0	0	0
Transportation, Department of	2,890,235	0	0	0	0	2,890,235	0
Rhode Island	8,361,413	99,985	136,999	6,658,944	363,485	900,000	202,000
Commerce Corporation	986,076	99,985	136,999	183,607	363,485	0	202,000
Fish and Wildlife; Environmental Management, Department of	4,044,625	0	0	4,044,625	0	0	0
Marine Fisheries; Environmental Management, Department of	2,169,953	0	0	2,169,953	0	0	0
Narragansett Bay National Estuarine Research Reserve; Environmental Management, Department of	181,937	0	0	181,937	0	0	0
Transportation, Department of	900,000	0	0	0	0	900,000	0
Water Resources Board	78,822	0	0	78,822	0	0	0
South Carolina	50,056,315	1,770,038	562,345	29,745,041	13,374,650	2,581,949	2,022,292
Agriculture, Department of	1,180,047	1,130,047	50,000	0	0	0	0
Disabilities and Special Needs, Department of	11,798,260	0	0	0	11,798,260	0	0
Health and Environmental Control, Department of	1,146,936	459,991	0	0	686,945	0	0
Mental Health, Department of	39,467	0	0	0	39,467	0	0
Natural Resources, Department of	26,580,926	0	0	26,580,926	0	0	0
Public Service Authority	512,345	0	512,345	0	0	0	0
Research Authority	3,197,270	180,000	0	25,000	849,978	125,000	2,017,292
Sea Grant Consortium	3,144,115	0	0	3,139,115	0	0	5,000
Transportation, Department of	2,456,949	0	0	0	0	2,456,949	0
South Dakota	4,595,753	2,486,260	0	0	0	2,109,493	0
Corn Utilization Council	50,000	50,000	0	0	0	0	0
Midwest Dairy Association, South Dakota Division	67,509	67,509	0	0	0	0	0
Nutrient Research and Education Council	972,936	972,936	0	0	0	0	0
Oilseeds Council	352,798	352,798	0	0	0	0	0
Pulse Crop Council	31,390	31,390	0	0	0	0	0
Soybean Research and Promotion Council	449,642	449,642	0	0	0	0	0
Transportation, Department of	2,109,493	0	0	0	0	2,109,493	0
Weed and Pest Control Commission	47,000	47,000	0	0	0	0	0
Wheat Commission	514,985	514,985	0	0	0	0	0
Tennessee	38,959,330	0	0	314,273	0	5,399,804	33,245,253
Education, Department of	26,245,253	0	0	0	0	0	26,245,253
Environment and Conservation, Department of	314,273	0	0	314,273	0	0	0
LaunchTN	7,000,000	0	0	0	0	0	7,000,000

TABLE 21

## State agency expenditures for R&amp;D, by state, department or agency, and function of R&amp;D: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other <sup>a</sup>
Transportation, Department of	5,399,804	0	0	0	0	5,399,804	0
Texas	247,609,284	1,353,356	0	6,661,241	214,612,352	24,982,335	0
Agriculture, Department of	1,353,356	1,353,356	0	0	0	0	0
Alzheimer's Research and Care Consortium (TARCC)	4,384,547	0	0	0	4,384,547	0	0
Cancer Prevention and Research Institute	208,262,268	0	0	0	208,262,268	0	0
Environmental Quality, Commission on	1,490,243	0	0	1,490,243	0	0	0
Parks and Wildlife Department	4,445,763	0	0	4,445,763	0	0	0
State Health Services, Department of	1,965,537	0	0	0	1,965,537	0	0
Transportation, Department of	24,982,335	0	0	0	0	24,982,335	0
Water Development Board	725,235	0	0	725,235	0	0	0
Utah	8,837,531	305,965	0	5,847,503	0	2,684,063	0
Agriculture And Food, Department Of	305,965	305,965	0	0	0	0	0
Environmental Quality, Department of	618,560	0	0	618,560	0	0	0
Natural Resources, Department of	5,228,943	0	0	5,228,943	0	0	0
Transportation, Department of	2,684,063	0	0	0	0	2,684,063	0
Vermont	1,460,157	0	0	63,773	553,199	843,185	0
Agriculture, Food, and Markets, Agency of	63,773	0	0	63,773	0	0	0
Human Services, Agency of	553,199	0	0	0	553,199	0	0
Transportation, Agency of	843,185	0	0	0	0	843,185	0
Virginia	40,253,504	3,267,434	412,180	10,742,492	2,963,275	16,489,762	6,378,361
Agriculture and Consumer Services, Department of	2,949,439	2,949,439	0	0	0	0	0
Behavioral Health And Developmental Services, Department of	1,240	0	0	0	0	0	1,240
Commonwealth Health Research Board	1,249,650	0	0	0	1,249,650	0	0
Education, Department of	1,115,000	0	0	0	0	0	1,115,000
Energy, Department of	1,629,726	0	0	1,629,726	0	0	0
Environmental Quality, Department of	347,705	0	0	347,705	0	0	0
Forensic Science, Department of	1,016,000	0	0	0	0	0	1,016,000
Forestry, Department of	610,930	0	0	610,930	0	0	0
Foundation for Healthy Youth	808,437	0	0	0	808,437	0	0
Innovation Partnership Corporation	10,980,762	244,995	412,180	3,594,694	905,188	2,577,584	3,246,121
Institute for Advanced Learning and Research	73,000	73,000	0	0	0	0	0
Marine Resources Commission	1,990,284	0	0	1,990,284	0	0	0
Natural History, Museum of	856,356	0	0	856,356	0	0	0
Rail And Public Transportation	260,000	0	0	0	0	260,000	0
Social Services, Department of	1,000,000	0	0	0	0	0	1,000,000
Transportation, Department of	13,652,178	0	0	0	0	13,652,178	0

TABLE 21

## State agency expenditures for R&amp;D, by state, department or agency, and function of R&amp;D: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other <sup>a</sup>
Wildlife Resources, Department of	1,712,797	0	0	1,712,797	0	0	0
Washington	60,886,219	13,620,631	15,236,975	22,916,358	1,362,789	4,527,700	3,221,766
Agriculture, Department of	3,415,009	3,415,009	0	0	0	0	0
Alfalfa Seed Commission	20,000	20,000	0	0	0	0	0
Asparagus Commission	40,000	40,000	0	0	0	0	0
Blueberry Commission	217,000	217,000	0	0	0	0	0
Commerce, Department of	14,792,431	0	14,792,431	0	0	0	0
Cranberry Commission	15,880	15,880	0	0	0	0	0
Dairy Products Commission	80,000	80,000	0	0	0	0	0
Ecology, Department of	1,353,380	0	0	1,353,380	0	0	0
Fish and Wildlife, Department of	11,727,293	0	0	11,727,293	0	0	0
Fruit Commission	97,789	0	0	0	97,789	0	0
Grain Commission	2,046,962	2,046,962	0	0	0	0	0
Health, Department of	1,265,000	0	0	0	1,265,000	0	0
Hop Commission	134,868	134,868	0	0	0	0	0
Labor and Industries, Department of	3,221,766	0	0	0	0	0	3,221,766
Mint Commission	32,739	32,739	0	0	0	0	0
Natural Resources, Department of	7,767,429	0	444,544	7,322,885	0	0	0
Oilseeds Commission	120,538	120,538	0	0	0	0	0
Pesticide Registration, Commission on	405,000	405,000	0	0	0	0	0
Potato Commission	895,660	895,660	0	0	0	0	0
Puget Sound Partnership	2,512,800	0	0	2,512,800	0	0	0
Pulse Crops Commission	124,303	124,303	0	0	0	0	0
Red Raspberry Commission	180,470	180,470	0	0	0	0	0
Transportation, Department of	4,527,700	0	0	0	0	4,527,700	0
Tree Fruit Research Commission	5,231,737	5,231,737	0	0	0	0	0
Turfgrass Seed Commission	157,209	157,209	0	0	0	0	0
Wine Commission	503,256	503,256	0	0	0	0	0
West Virginia	9,180,282	244,126	1,333,732	2,433,225	241,625	2,260,000	2,667,574
Agriculture, Department of	244,126	244,126	0	0	0	0	0
Geological and Economic Survey	2,053,431	0	1,161,760	527,209	0	0	364,462
Higher Education Policy Commission	2,748,699	0	171,972	31,990	241,625	0	2,303,112
Natural Resources, Department of	1,874,026	0	0	1,874,026	0	0	0
Transportation, Department of	2,260,000	0	0	0	0	2,260,000	0
Wisconsin	19,060,693	2,539,311	0	7,047,780	1,314,143	4,217,027	3,942,432
Agriculture, Trade and Consumer Protection, Department of	2,539,311	2,539,311	0	0	0	0	0
Economic Development Corporation	5,256,575	0	0	0	1,314,143	0	3,942,432
Natural Resources, Department of	7,047,780	0	0	7,047,780	0	0	0
Transportation, Department of	4,217,027	0	0	0	0	4,217,027	0

TABLE 21

## State agency expenditures for R&amp;D, by state, department or agency, and function of R&amp;D: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other <sup>a</sup>
Wyoming	5,657,338	640,504	1,150,355	2,086,841	656,000	768,083	355,555
Agriculture, Department of	640,504	640,504	0	0	0	0	0
Business Council	1,011,555	0	0	0	656,000	0	355,555
Enhanced Oil Recovery Institute	1,032,669	0	1,032,669	0	0	0	0
Game and Fish Department	1,658,878	0	0	1,658,878	0	0	0
State Geological Survey	235,372	0	117,686	117,686	0	0	0
Transportation, Department of	768,083	0	0	0	0	768,083	0
Water Development Office	310,277	0	0	310,277	0	0	0
Puerto Rico <sup>c</sup>	17,058,786	258,249	0	796,996	11,118,968	0	4,884,573
Comprehensive Cancer Center	8,273,926	0	0	0	7,893,217	0	380,709
Economic Development & Commerce	760,000	0	0	160,000	420,000	0	180,000
Innovation & Technology Services	3,555,203	0	0	0	678,603	0	2,876,600
Institute of Statistics	1,462,042	0	0	0	339,960	0	1,122,082
Mental Health and Anti-Addiction Services Administration	225,000	0	0	0	225,000	0	0
Science, Technology and Research Trust	2,782,615	258,249	0	636,996	1,562,188	0	325,182

<sup>a</sup> Other functions include, but are not limited to, corrections, criminal justice, education, forensic science, labor, public safety, and social services.

<sup>b</sup> U.S. total reflects all 50 states and the District of Columbia.

<sup>c</sup> Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2022.